

Decimal Fractions***Lecture sheet – 11******Creative Questions******Solution***

1. a) Price of 1 kg rice = 40 tk

Price of 7.5 kg rice = (40×7.5) tk

= 300 tk

Ans: 300 tk

Rough
40
$\times 7.5$
<hr/>
200
2800
<hr/>
3000.0

b) Price of 1 kg vegetable = 30 tk

“ “ 2.5 kg “ = (30×2.5) tk

= 75 tk

Ans: 75 tk

Rough
30
× 2.5

150
60 ×

75.0

c) From 'a' we get,

Shihab spent money for rice = 300 tk

From 'b' we get,

Shihab Spent money for vegetable = 75 tk.

Now,

Price of 1 kg dal = 115 tk

“ “ 0.5 kg “ = (115 × 0.5) tk
= 57.5 tk

He spent in total = (300+75+57.5) tk
= 432.5 tk

Ans: 432.5 tk

Rough	
115	300.0
× 0.5	75.0

57.5	+ 57.5

	432.5

2. a) Given that,

$$\text{Area of rectangular field} = 253 \text{ sq. m}$$

$$\text{Width} = 11.5 \text{ m}$$

We know,

$$\text{Length} = \text{Area} \div \text{Width}$$

$$= \frac{253}{11.5} m$$

$$= \frac{253 \times 10}{11.5 \times 10} m$$

$$= \frac{2530}{115} m$$

$$= 22 \text{ m}$$

Ans: 22 m

Rough
22
115) 2530
230
230
230
0

b) Given that,

$$\text{Width} = 11.5 \text{ m}$$

From 'a' we get, the length = 22 m

Now, If the length is 1.5 m more, than the length will be = $(22+1.5) \text{ m}$
= 23.5 m

We know,

$$\begin{aligned}\text{Area of rectangle} &= \text{Length} \times \text{Width} \\ &= (23.5 \times 11.5) \text{ sq. m} \\ &= 270.25 \text{ sq. m}\end{aligned}$$

Ans: 270.25 sq. m

<p>Rough</p> $\begin{array}{r} 22.0 \\ + 1.5 \\ \hline 23.5 \end{array}$ $\begin{array}{r} 23.5 \\ \times 11.5 \\ \hline 1175 \\ 235 \times \\ 235 \times \times \\ \hline 270.25 \end{array}$

- 3. a)** 6 students get = 5.4 m of tape
1 “ “ = (5.4 ÷ 6) m of tape
= 0.9 m of tape

Ans: 0.9 m of tape

<p>Rough</p> $\begin{array}{r} 0.9 \\ \hline 6) 5.4 \\ 0 \\ \hline 54 \\ 54 \\ \hline 0 \end{array}$
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b) From 'a' we get,

$$\begin{aligned} 1 \text{ student get} &= 0.9 \text{ m of tape} \\ 3 \text{ " " " } &= (0.9 \times 3) \text{ m of tape} \\ &= 2.7 \text{ m of tape} \end{aligned}$$

Ans: 2.7 m of tape.

Rough

$$\begin{array}{r} 0.9 \\ \times 3 \\ \hline 2.7 \end{array}$$

c) If there are 10 students, then –

$$\begin{aligned} 10 \text{ students get} &= 5.4 \text{ m of tape} \\ 1 \text{ " " " } &= (5.4 \div 10) \text{ m of tape} \\ &= 0.54 \text{ m of tape} \end{aligned}$$

Ans: 0.54 m of tape

4. a) 1 packet contains 0.5 L of milk

$$\begin{aligned} 3 \text{ " " " } &= (0.5 \times 3) \text{ L of milk} \\ &= 1.5 \text{ L of milk} \end{aligned}$$

Ans: 1.5 L of milk

Rough

$$\begin{array}{r} 0.5 \\ \times 3 \\ \hline 1.5 \end{array}$$

b) If there is an extra packet of milk then the number of packet = $(3+1)$
= 4

Now,

1 Packet contains 0.5 L of milk
4 “ “ (0.5 × 4) L of milk
= 2.0 L of milk

Ans: 2 L

Rough
0.5
× 4
—
2.0

c) 1 packet contains 0.25 L of milk
3 “ “ (0.25 × 3) L of milk
= 0.75 L of milk

Ans: 0.75 L of milk

Rough
0.25
× 3
—
0.75

5. a) Formula:

$$\text{The area of triangle} = \frac{\text{Base} \times \text{Height}}{2} \text{ sq. unit}$$

b) Given,

$$\text{Area of triangle} = 1.6 \text{ sq. m}$$

$$\text{Height} = 0.4 \text{ m}$$

We know,

$$\text{Base} = \frac{2 \times \text{Area}}{\text{Height}}$$

$$= \frac{2 \times 1.6}{0.4} m$$

$$= \frac{3.2}{0.4} m$$

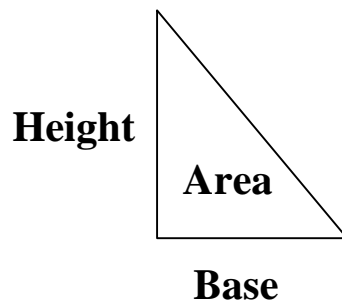
$$= \frac{3.2 \times 10}{0.4 \times 10} m$$

$$= \frac{32}{4} m$$

$$= 8 \text{ m}$$

Ans: 8 m

Formula



$$\mathbf{Area} = \frac{Base \times Height}{2}$$

$$\mathbf{Base} = \frac{2 \times Area}{Height}$$

$$\mathbf{Height} = \frac{2 \times Area}{Base}$$

$$\begin{array}{r}
 \text{Rough} \\
 1.6 \\
 \times \quad 2 \\
 \hline
 3.2
 \end{array}$$

c) From 'b' we get,

$$\text{Base} = 8 \text{ m}$$

$$\text{And Height} = 0.6 \text{ m}$$

We know that,

$$\text{Area} = \frac{\text{Base} \times \text{Height}}{2}$$

$$= \frac{8 \times 0.6}{2} \text{ sq. m}$$

$$= \frac{4.8}{2} \text{ sq. m}$$

$$= 2.4 \text{ sq. m}$$

Ans: 2.4 sq. m

$$\begin{array}{r}
 \text{Rough} \\
 0.6 \\
 \times \quad 8 \\
 \hline
 4.8 \\
 \\
 2.4 \\
 \hline
 2) 4.8 \\
 \underline{4} \\
 8 \\
 \underline{8} \\
 0
 \end{array}$$

